

In the Claims

1 (currently amended). A reaction mixture for use in a fluid operation comprising a surface adsorbing polymer in a buffered solution and a biomolecule selected from a nucleic acid, polypeptide, peptide, lipid, chemical compound, receptor, ligand, antibody, cell, growth factor, growth inhibitor, enzyme or enzymatic substrate, wherein:

- a) the quantity of said surface adsorbing polymer of said reaction mixture reduces adsorption of an organic material to a surface;
- b) said surface adsorbing polymer binds non-covalently to said surface and has a molecular weight of at least 5×10^4 daltons;
- c) said surface adsorbing polymer is not one of the reactants of said fluid operation or is added in excess of the amount provided in said reaction mixture for conducting said fluid operation; and
- d) said surface adsorbing polymer does not inhibit the fluid operation.

2 (original). The reaction mixture according to claim 1, wherein said reaction mixture is for use in a fluid operation selected from the group consisting of a mixing step, an incubation, a dilution, a titration, a detection, a drug screening assay, a binding assay, a measuring assay and a biochemical reaction.

3 (currently amended). The reaction mixture according to claim 2, wherein said reaction mixture comprises enzymes and said reaction mixture is selected from the group consisting of a Polymerase Chain Reaction mixture, a Ligase Chain Reaction mixture, a primer extension reaction mixture, a genotyping reaction mixture and a microsequencing mixture.

4-6 (canceled).

7 (currently amended). The reaction mixture according to claim 1, wherein said surface adsorbing polymer has a molecular weight of at least 1×10^6 daltons.

8 (currently amended). The reaction mixture according to claim 2, wherein said surface adsorbing polymer has a molecular weight of at least 1×10^6 daltons.

9 (currently amended). The reaction mixture according to claim 3, wherein said surface adsorbing polymer has a molecular weight of at least 1×10^6 daltons.

10 (currently amended). The reaction mixture according to claim 1, 2, 3, ~~4, 5, 6~~, 7, 8, or 9, wherein said surface adsorbing polymer is selected from the group consisting of polyacrylamides, N-isopropylacrylamides, polydimethylacrylamides, propylene glycols, ethylene glycols, polypropylene glycols, polyethylene glycols, propylene oxides, ethylene oxides, polypropylene oxides and polyethylene oxides, polydimethylsiloxanes and polyvinylpyrrolidones.

11 (currently amended). The reaction mixture according to claim 1, 2, 3, ~~4, 5, 6~~, 7, 8, or 9, wherein said surface adsorbing polymer is a block-copolymer comprising two or more polymers selected from the group consisting of polyacrylamides, N-isopropylacrylamides, polydimethylacrylamides, propylene glycols, ethylene glycols, polypropylene glycols, polyethylene glycols, propylene oxides, ethylene oxides, polypropylene oxides and polyethylene oxides, polydimethylsiloxanes and polyvinylpyrrolidones.

12 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a nucleic acid.

13 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a polypeptide.

14 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a peptide.

15 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a lipid.

16 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a chemical compound.

17 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a receptor.

18 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a ligand.

19 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is an antibody.

20 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a cell.

21 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a growth factor.

22 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is a growth inhibitor.

23 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is an enzyme.

24 (previously presented). The reaction mixture of claim 1, wherein said biomolecule is an enzymatic substrate.